



Coates Screen

# Product Data Sheet

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## HALOGEN-FREE PAD PRINTING INKS TP E-HF

### APPLICATION

For all kinds of thermoplastics, especially for ABS, polystyrene and its copolymers, rigid PVC, PMMA and polycarbonate. For sufficient adhesion on polyester, polyamide and other duroplastics pre-treatment (corona or flame treatment) may be required.

### PROPERTIES

Halogen-free TP E-HF inks are very quick drying and weather resistant. They show good processing properties, high gloss and good resistance against benzines and alcohol especially when the ink is processed with hardener TP 219. Furthermore, pad printing inks TP E-HF have an excellent abrasion resistance.

### COLOUR SHADES

Printing inks by Coates Screen Inks GmbH correspond to the requirements of the respective current version of the EUPIA exclusion list. Pigments and other compounds based on antimony\*, arsenic, cadmium, chromium(VI), lead, mercury and selenium are not used.

\*see footnote in EUPIA list

Furthermore, colour shades of TP E-HF are halogen-free.

### ADJUSTMENT FOR PAD PRINTING

TP E-HF inks are adjusted to printing consistency with 10-30% thinner Additive U or thinner VD 60. For retardation use TPD.

For higher mechanical and chemical resistance or better adhesion TP E-HF can also be processed as 2-component ink. Mixing ratio pad printing ink TP E-HF : hardener TP 219 is 8:1 parts by weight. The pot life of the mixed inks is approx. 6 hours. After this time adhesion and resistance values might be reduced, even if the ink still seems to be liquid and processable.

### DRYING

Pad printing inks TP E-HF are air drying, i.e. they dry by evaporation of solvents contained in the ink. At room temperature (20°C-25°C) drying time is approx. 30-60 seconds. Heat application and air circulation will reduce drying time. Depending on the substrate the inks are completely cured within a few hours.

Processed as 2-component system, mechanical and chemical resistances are not achieved until the ink is fully cured (approx. 4-5 days).

### CLEANING

For cleaning of stencils and tools (not pad) our thinner VD 40 is suitable.

### PACKING

Pad printing inks TP E-HF are only delivered in 1 liter cans.

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## SHELF LIFE

For information regarding shelf life please see tin label.

## CLASSIFICATION

Read material safety data sheet prior to processing.

The material safety data sheet according to Regulation (EC) No. 1907/2006 (REACH) contains classification according to Regulation (EC) No. 1272/2008 (CLP/GHS) as well as instructions for precautions when processing, handling and storing as well as first aid.

STANDARD SHADES			
primrose	TP E/Y30-HF	violet	TP E/V56-HF (≈ V50)
golden yellow	TP E/Y56-HF (≈ Y50)	blue	TP E/B50-HF
orange	TP E/O56-HF (≈ O50)	green	TP E/G56-HF (≈ G50)
scarlet	TP E/R26-HF (≈ R20)	black	TP E/N50-HF
red	TP E/R50-HF	white	TP E/W50-HF
magenta	TP E/M50-HF	varnish	TP E/E50-HF
STANDARD SHADES			
white	TP E/60-HF		
white, highly opaque	TP E/60-HD-HF		
black	TP E/65-HF		
black, highly opaque	TP E/65-HD-HF		

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*The statements in our product and safety data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship. They serve to advise our business associates, but it is absolutely necessary to make your own printing tests under local conditions, with regard to the intended purpose prior to starting the job. - All former product data sheets are no longer valid. MAY 2015 – VERSION No. 3*

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